

Note: Posters that are also presented as poster platforms (PP) are listed in the technical session program for Tuesday and Thursday afternoon, as well as below (in green).

Theme I.

Toward a sustainable environment: managing resources through integrated actions

Transboundary transport of pollutants, cumulative risks, cleanup and restoration

- I-PP1 [Sustainable chemistry in Germany](#)
Werner Hauthal, University of Leipzig, Germany; Wilhelm-Ostwald, Institute for Physical and Theoretical Chemistry, Germany; Dieter Lenoir, GSF Forschungszentrum, Germany
- I-PP2 [Approaches for predicting health risks associated with complex chemical mixtures](#)
Peter Robinson, ManTech Environmental Technology, OH
- I-PP3 [Preliminary inventory of sources of persistent organic pollutants in St. Petersburg](#)
Veniamin Khudoley, Georgii Livanov, Russian Academy of Science, Russia; Marina Alexandrova, Institute of Toxicology, Russia
- I-PP4 [Exposure to dose research focus of PNNL's new environmental health initiative](#)
Robert Stenner, K. Soldat, C. Timchalk, K. Thrall, J. McDonald, D. Strom, Pacific Northwest National Laboratory, WA
- I-PP5 [Using multiple data sources, including multi-seasonal satellite images, to develop habitat maps for ecological risk assessment at a nuclear facility](#)
John Pinder, Colorado State University, CO; Kristy Guy, USGS, FL; Tracy Rea, Bechtel Savannah River, Inc., SC; Deno Karapatakis, Savannah River Ecology Laboratory, GA; Helen Wiggins-Brown, University of Georgia, GA
- I-PP6 [Native plant restoration for urban developments](#)
Mike Girvin, Designs on Nature, IN
- I-PP7 [Environmental technology development, deployment and commercialization: two DOE examples](#)
Jeremy Boak, Los Alamos National Laboratory, NM
- I-P1 [Risk assessment methods used in support of US programs for chemical weapons stockpile destruction](#)
Heidi Hartmann, Argonne National Laboratory, IL
- I-P2 [Science and technology challenges for the environmental cleanup of the Cold War legacy](#)
Curtis Travis, Quest Technology, TN; Alvin Young, Miles Dionisio, DOE Center for Risk Excellence, IL
- I-P3 [Alternative waste management systems](#)
Zachary Jones, Stephanie N. Simmons, Carnegie Science Center, PA
- I-P4 [Removal of contaminants by using fuel cell cathode/ion exchange membrane](#)
Riza Kizilel, J.R. Selman, Illinois Institute of Technology, IL; G. Sandi, Argonne National Laboratory, IL
- I-P5 [Applying hydrologic tools to understand environmental data for dose and risk assessments at the Hanford site](#)
Doug Hildebrand, US Department of Energy Richland Office, WA
- I-P6 [Evaluating health risks associated with flood events after a major wildfire](#)
Randall Ryt, Danny Katzman, Steven Reneau, Los Alamos National Laboratory, NM
- I-P7 [Conceptual models for integrated cumulative risk assessment](#)
Ryan Ramos, Roxanne Myshkowec, Margaret Shanafield, Zach Schreiber, Margaret MacDonell, Argonne National Laboratory, IL
- I-P8 [Screening approaches for community-based cumulative risk assessments](#)
Jim Butler, Margaret MacDonell, YoungSoo Chang, Argonne National Laboratory, IL
- I-P9 [Humic products for environmental protection and rehabilitation of polluted territories](#)
Alexander Abramets, Institute for Problems of Natural Resources Use and Ecology, Belarus
- I-P10 [Interaction of phenolic uncouplers in mixtures in an *in vitro* assay, and in *in vivo* experiments with *Vibrio fischeri* and *Daphnia magna*](#)
Zachariah Schreiber, B. Escher, R. Hunziker, O. Kuehnholz, K. R. Schwarzenbach, ETHZ, Switzerland; Becker van Slooten, EPFL, Switzerland
- I-P11 [Risk, information, and long-term stewardship decision processes](#)
Elizabeth Hocking, Robert Johnson, S.Y. Chen, Jack Ditmars, Argonne National Laboratory, IL
- I-P12 [Ecological problems of St. Petersburg and Leningrad District underground water resources employment](#)
A. Frolov, T. Fazyeva, Department of Natural Resources of Russian North-West Region, Russia
- I-P13 [The demise of urban wetlands resulting from landfill and quarry operations: an Indiana case study](#)
Solomon Isiorho, Indiana University-Purdue University, IN

- I-P14 [Risk assessment for contaminated land and temporary radioactive waste storage sites in the Chernobyl exclusion zone](#)
Borys Zlobenko, State Scientific Center of Environmental Radiogeochemistry of the Academy of Sciences and the Ministry of Emergencies, Ukraine
- I-P15 [The transdisciplinarity solution of the problems of radioactive waste in Chernobyl exclusion zone](#)
Ivan Sarwar, Cherkassy Institute of Engineering & Technology, Ukraine
- I-P16 [Degradation of peat soils of Belarus: reasons and consequences](#)
Elena Rovdan, Institute for Problems of Natural Resources Use and Ecology, Belarus
- I-P17 [The safety assessment during the long-term storage of spent fuel of alfa class submarines](#)
Dmitry Pankratov, Boris Gromov, Evgueni Efimov, Sviatoslav Ignatiev, Ludmila Riabya, Institute of Physics and Power Engineering, Russia; Victor Kalchenko, Vladimir Stepanov, Research and Development Bureau "Gidropress," Russia
- I-P18 [Treatment of ADS spent liquid metal targets as a waste form](#)
Sviatoslav Ignatiev, Evgueni Efimov, Victor Levanov, and Dmitry Pankratov, Institute of Physics and Power Engineering (IPPE), Russia

Theme II.

Public policy and due process: involving stakeholders in developing solutions

Partnerships and communication, economics, redevelopment, and insights from climate change

- II-P1 [The health risk among select occupational health care employee groups in an urban hospital](#)
M. Rajasekhar, N.V. Nandakumar, Sri Venkateswara University, India
- II-P2 [Socio-environmental risk factors associated with diarrhea in the biggest pilgrim town, Tirupati](#)
M. Rajasekhar, N.V. Nandakumar, Sri Venkateswara University, India
- II-P3 [The ASME Environmental Communications Committee](#)
Martin Edelson, Ames Laboratory/Iowa State University, IA
- II-P4 [Sharing restoration projects with children](#)
Michael Girvin, Designs on Nature, IN
- II-P5 [Thermal tolerance of rainforest plants in Biosphere 2](#)
Kristi Argenbright, Jamie Ballantyne, Ami Patel, John Adams, Texas Christian University, TX
- II-P6 [Climate modeling at the regional scale](#)
John Taylor, Jay Larson, Sheri Voelz, Argonne National Laboratory, IL
- II-P7 [To the forecasting of global warming influence on ancient lakes ecosystems](#)
Maxim Timofeyev, Irkutsk State University, Russia
- II-P8 [Global climate change and water resources in Southeast Asia](#)
Ivan Sarwar, Cherkassy Institute of Engineering & Technology, Ukraine

Theme III.

Environmental information in the 21st century: approaches & tools for better decisions

Data collection and analysis, GIS / visualization tools, information technology and Internet applications

- III-PP1 [Local environmental health analysis as a tool for policy-making, exemplified by "Transport, Environment and Health" in the City of Bielefeld](#)
Rainer Fehr, W. Hellmeier, Institute of Public Health, Germany; A. Vogt, D. Philippsen, A. Queste, University of Bielefeld, Germany; M. Enderle, City of Bielefeld, Germany
- III-PP2 [An OO-IDLAMS case study to test a dynamic object-oriented architecture approach to modeling and simulation](#)
Pamela Sydelko, Argonne National Laboratory, IL; Kimberly Majerus, Illinois Department of Transportation, IL; Jayne E. Dolph, Thomas N. Taxon, Argonne National Laboratory, IL

- III-PP3 [EQPT: A GIS-based tool for assessing environmental quality](#)
Michael R. Sackschewsky, Spyridon Tzemos, Gordon R. Bilyard, Pacific Northwest National Laboratory, WA
- III-PP4 [The Environmental Data Catalogue of Hamburg](#)
Mathias Bock, Umweltbehörde Hamburg, Germany
- III-P1 [Derivation of quantitative environmental health targets from surveillance information](#)
Rainer Fehr, W. Hellmeier, loegd NRW, Germany; A. Queste, U. Wolf, University of Bielefeld, Germany
- III-P2 [Standards for human exposure assessment for environmental chemicals using probabilistic modeling – a contribution to good practice in risk assessment](#)
Odile Mekel, University of Bielefeld, Germany; Rainer Fehr, Institute of Public Health (loegd) North, Germany; O. Mosbach-Schulz, University of Bremen, Germany; M. Schümann, University of Hamburg, Germany
- III-P3 [Integration of GIS with a radiological transportation accident consequence health risk model](#)
James Kuiper, Bruce Biwer, Dave LePoire, S. Y. Chen, Argonne National Laboratory, IL
- III-P4 [Special population planner: A GIS-based emergency planning system](#)
James Kuiper, William Metz, Daniel Miller, Argonne National Laboratory, IL
- III-P5 [Pathways to shared environmental models, data, and visualization](#)
David LePoire, John Arnish, Bruce Biwer, Argonne National Laboratory, IL
- III-P6 [GIS mapping of a rural-urban sub-watershed using Landsat TM and population statistics](#)
Ken Morgan, Paul Way, Arthur Busbey, Ray Drenner, Michael Slattery, Texas Christian University, TX
- III-P7 [Mammal survey for the Mason Audubon Center, Tucson, Arizona, USA](#)
Derrick Dollar, Texas Christian University, TX; Scott Richardson, Arizona Game & Fish, AZ; Erin Deely, Audubon Society, AZ
- III-P8 [Wetlands and urbanization: a case study of the Lodes Marsh, Fort Worth Nature Center and Refuge, Fort Worth, Texas, USA](#), *Alie Patrick Koroma, Leo Newland, Ken Morgan, Texas Christian University, TX*
- III-P9 [Using a GIS-based modeling approach to identify potential wetland mitigation sites at Argonne National Laboratory](#)
Robert Van Lonkhuyzen, Kirk LaGory, James Kuiper, Argonne National Laboratory, IL
- III-P10 [Visualizing high-resolution model runs of the "Perfect Storm" using Cave5D](#)
Sheri Voelz, John Taylor, Argonne National Laboratory, IL

Theme IV.

Engineering and biotechnology solutions: applying new technology to energy, food, and health

Energy, food safety and health, and transfer of sustainable technology

- IV-PP1 [A proposed modular-sized, integrated nuclear and hydrogen-based energy system](#)
Bruce W. Spencer, Richard Doctor, and David Wade, Argonne National Laboratory, IL; Kenneth Peddicord, Texas A&M University, TX; Charles Boardman, General Electric Company, IL; Giuseppe Marucci, ENEA, Italy
- IV-P1 [Making environment-friendly and stabilizing the hydraulic slag and fly ash deposits from Romanian thermal power plants](#)
Dumitru Gardan, Institute of Power Studies & Design, Romania
- IV-P2 [Policy and technology affecting carbon emissions in the US electric supply sector](#)
Ryan Ramos, Northwestern University, IL
- IV-P3 [Heterophaseous ozone method of smoke gases denitrification](#)
H. Stolyarenko, I. Astrelin, N. Fomina, V. Demyanenko, Engineering & Technology Institute, Ukraine

- IV-P4 [To the food security policy in Russia](#)
Valeria Pisslar, Irkutsk State University, Russia
- IV-P5 [Impact of pesticides on the environment: perceptions, knowledge and use practices of the rice farmers of Japan and Bangladesh](#)
Sultana Parveen, Nobukazu Nakagoshi, Hiroshima University, Japan
- IV-P6 [Aerobic degradation of olive mill wastewaters by *Candida tropicalis*](#)
Khalid Fadil, A. Chahlaoui, A. Quahbi, A. Zaid, Laboratoire de Biochimie et de Pharmacognoski, Faculty of Sciences of Meknes, Morocco

International Risk Assessment Network

- N-P1 [New approaches to the problem of geoeological risk for urbanized territories](#)
Georgy Lysychenko, I. Zajonts, J. Bondarenko, B. Slipchenko, State Scientific Center of Environmental Radiogeochimistry (SSCER) of NAS and the Ministry of Emergencies of Ukraine, Ukraine
- N-P2 [Geological-ecological risk in power energetics of the Ukraine for Cold War facilities and the environmental legacy](#)
Tamara Dudar, Georgy Lysychenko, SSCER of NAS and the Ministry of Emergencies of Ukraine, Ukraine
- N-P3 [Ukraine: biosphere radiation safety, Cold War facilities and environmental legacy](#)
Georgy Lysychenko, SSCER of NAS and the Ministry of Emergencies of Ukraine, Ukraine
- N-P4 [Experience with using the MEPAS system in Ukraine](#)
Georgy Lysychenko, Tamara Dudar, SSCER of the National Academy of Sciences, Ukraine
- N-P5 [The example of the risk assessment of effects of intensive industrialization during the period of the Cold War](#)
Jaroslav Volf, Ceslova Veronika, Slachtova Hana, Regional Institute of Hygiene, Ostrava, Czech Republic
- N-P6 [The usage of biomarkers for exposure assessment in risk assessment application](#)
Ali Esat Karakaya, Gazi University, Turkey
- N-P7 [Problems from the influence of radioactive storage on the ecology](#)
Azamat Tynybekov, International Science Center, Kyrgyzstan
- N-P8 [Elaboration of risk assessment methodology in the ecological education system of Armenia](#)
Olga Juharyan, V. Asaturyan, Center for Ecological-noosphere Studies of NAS, Armenia
- N-P9 [Removal of organic contaminants during treatment of groundwater using adsorbents](#)
Marina Valentukeviciene, Juozas Jankauskas, Vilnius Gediminas Technology University, Lithuania
- N-P10 [Methods of fuel spray aerodynamics control and reduction of harmful atmospheric emissions during fuel burning](#)
Peter Gusika, International Association of Ecological Safety, Russia; Oksana Shilova, Network International Interaction Group, Russia
- N-P11 [The International Risk Network: enabling risk application opportunities in Russia](#)
Peter Gusika, International Association of Ecological Safety, Oksana Shilova, Network International Interaction Group, Russia, Nina Janovskaja, NUCLEIDE, Vitaly Eremenko, Kurchatov Institute, Russia; William Andrews, Dennis Bley, James Droppo, Pacific Northwest National Laboratory, WA
- N-P12 [The challenges of the Hungarian team of the Risk Assessment Network](#)
Tamas Madarasz, University of Miskolc, Hungary
- N-P13 [Wide-area information exchange network to support the International Risk Assessment Network](#)
Loren Habegger, Argonne National Laboratory; Alvin Young, US DOE Center for Risk Excellence; Robert Johnson, Margaret MacDonell, and Gus Williams, Argonne National Laboratory, IL
- N-P14 [Report on the NATO Advanced Studies Institute on risk assessment activities for Cold War facilities and environmental legacies, May 2000](#)
James Droppo, Dennis Bley, Pacific Northwest National Laboratory, WA; Vitaly Eremenko, Kurchatov Institute, Russia